

Application/Control Number : 09/533,215
Art Unit: 2872
April 17, 2001
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In the Claims:

Replace the originally filed claims 1-9 with the following amended claims 1-9:

a!
[Signature]
1. (amended) A rear-view mirror with a wide viewing angle and reduced single-image distortion installed on a vehicle, the mirror comprising a monolithic plastic body which is made of transparent plastic material and in which a surface that faces objects to be detected is flat and an opposite reflecting surface is obtained with an aspheric shape which is optically generated by the rotation, about an axis which is ideally parallel to a centerline axis of the vehicle on which the mirror is installed, of a curve whose equation is:

$$M = 1/[1+(2E/R)]$$

wherein M is the angular magnification of a reflected image of the mirror, E is the distance of the eye of a driver from the surface of the mirror that faces objects to be detected and R is the radius of curvature of the mirror which varies point by point along the mirror.

2. (amended) The mirror installed on a vehicle according to claim 1, said reflecting surface is fully aspheric.
[Signature]

3. (amended) The rear-view mirror installed on a vehicle according to claim 1, wherein said monolithic body made of transparent material is obtained by pressure injection-compression or gravity casting, with low-roughness surfaces which are obtained so as to be perfectly reflective by metallic deposition or by means of a film or low-thickness panel.

4. (amended) The rear-view mirror installed on a vehicle according to claim 1, wherein the reflecting surface is obtained by means of a coating technique or by in-mold coating or by in-mold embedding of reflective panels or films.
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5. (amended) The rear-view mirror installed on a vehicle according to claim 1, wherein the reflective surface is made of electrically conducting.

6. (amended) The rear-view mirror installed on a vehicle according to claim 1, wherein the flat surface is of a water-repellent and scratch-resistant type.

7. (amended) The rear-view mirror installed on a vehicle according to claim 1, wherein said flat surface is made of an electrically-conducting material.

8. (amended) The rear-view mirror installed on a vehicle according to claim [1] 2, wherein said aspheric reflecting surface determines a transverse viewing angle of 85°.

9. (amended) A rear-view mirror with a wide viewing angle and reduced single-image distortion installed on a vehicle, the mirror comprising a monolithic plastic body which is made of transparent plastic material and in which a surface that faces objects to be detected is flat and an opposite reflecting surface is obtained with an aspheric shape which is optically generated by the rotation, about an axis which is ideally perpendicular to a centerline axis of the vehicle on which the mirror is installed, of a curve whose equation is:

$$M = 1/[1+(2E/R)]$$

wherein M is the angular magnification of a reflected image of the mirror, E is the distance of the eye of a driver from the surface of the mirror that faces objects to be detected and R is the radius of curvature of the mirror which varies point by point along the mirror.